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INTERNATIONAL PRELIMINARY EXAMINATION REPORT WIPO

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(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference	TOP THOMPSON A CONON	SeeNotificatio	nofTransmittalofInternationa	alPreliminary			
PCT-027	FOR FURTHER ACTION Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date(day/mo		Priority date (day/month/ye				
PCT/KR2002/001832	30 SEPTEMBER 2002		11 JULY 2002 (11.07.200	2)			
International Patent Classification (IPC) IPC7 C08L 69/00, C08 Applicant							
CHEIL INDUSTRIES INC.	et al			<u> </u>			
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
	of 4 sheets, inch						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a tota	l ofsheets.						
3. This report contains indications	relating to the following items:						
I X Basis of the report	;						
II Priority							
III Non-establishmen	t of opinion with regard to novel	ty, inventive step	and industrial applicability				
IV Lack of unity of it	ivention						
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI X Certain documents cited							
VII Certain defects in	the international application			j			
VIII Certain observations on the international application							
Date of submission of the demand	Ds	te of completion of	of this report				
14 JANUARY 2004	4 (14.01.2004)	14 ОСТОВ	ER 2004 (14.10.2004)				
Name and mailing address of the IPE	1	uthorized officer					
Korean Intellectual Prop 920 Dunsan-dong, Seo-g Republic of Korea	erty Office u, Daejeon 302-701,	SOHN, Chang	з Но				
Facsimile No. 82-42-472-7140	Te	elephone No. 82-	42-481-5538	An and			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No. PCT/KR2002/001832

I. Basis of the report	
. With regard to the elements of the international application:*	
X the international application as originally filed	
the description:	, as originally filed
pages	filed with the demand
pages, filed with the letter of	
the claims:	, as originally filed
pages, as amended (together with	any statment) under Article 19
pages	, filed with the demand
pages, filed with the letter of	
the drawings:	, as originally filed
	, filed with the demand
pages, filed with the letter of	
the sequence listing part of the description:	, as originally filed
pagespages	, filed with the demand
pages, filed with the letter of	
 With regard to the language, all the elements marked above were available or furnished to this the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rux the language of publication of the international application (under Rule 48.3(b)).	the 23.1(b)). examination(under Rules 55.2 and/
contained in the international application in written form.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority in written form.	
furnished subsequently to this Authority in computer readable form	
The statement that the subsequently furnished written sequence listing does not international applicationas as filed has been furinshed. The statement that the information recorded in computer readable form is identical to been furnished.	
4. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheet	
This report has been established as if (some of) the amendments had not been made go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c))	, since they have been considered to .**
* Replacement sheets which have been furnished to the receiving Office in response to an invita in this opinion as "originally filed." and are not annexed to this report since they do not and 70.17).	tion under Article 14 are referred to ontain amendments (Rules 70.16
** Any replacement sheet containing such amendments must be referred to under item I and an	nexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabil	ity;
citations and explanations supporting such statement	

1.	Statement			
1	Novelty (N)	Claims	1-4	YES
		Claims	none	NO
	Inventive step (IS)	Claims	1-4	YES
	mvenave step (25)	Claims	none	NO
١	Industrial applicability (IA)	Claims	1-4	YES
	mada maga approved may	Claims	none	
1				

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for this report:

D1: US 4391935 A (General Electric Company) 05 July 1983 D2: EP 1069156 A (Cheil Industries Inc.) 17 January 2001

Claims 1-4 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest any of the embodiments as specifically set forth in the claims.

The invention described in claim 1 relates to a flame retardant thermoplastic resin composition with good flame retardancy, heat resistance and mechanical strength. Document D1 discloses an improved flame retardant polycarbonate composition of an aromatic carbonate polymer. Document D2 discloses a flame retardant thermoplastic molding composition which comprises a thermoplastic polycarbonate, a styrene graft polymer, a phosphate compound and a fluorinated polyolefin etc. However, none of these cited documents describe or fairly suggest a flame retardant thermoplastic resin composition which includes a cyclic oligomeric phosphazene compound represented by a formula (Π) and an oligomeric phosphoric acid ester compound represented by a formula (Π), as described in claim 1.

Therefore, the subject matter of claim 1 is considered to be novel and to involve an inventive step; consequently, the subject matter of dependent claims 2-4 is also novel and inventive.

Claims 1-4 meet the criteria of PCT Article 33(4), IA, because the invention is industrially applicable.

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Certain	documents cited		· <u> </u>				
ertain p	oublished documents (R	ule 70.10)					
	Application No. Patent No.	Publication da (day/month/ye		Filing da	te (year)	Priority date (v	
E, Y	KR 2002-83711 A	04 November	2002	30 April 20	001	none	
KR 2 featu	2002-83711 A discloses tres of claims 1-4.	a fire retardant, the	ermoplastic	resin compositio	n based on p	polycarbonate, which	relates to the
	. ·						
Non-wi	ritten disclosures (Rule	70.9)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
	Kind of non-written di	sclosure		n-written discloss month/year)	ure	Date of written di referring to non-writ (day/month/y	ten disclosure
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